

**Brake assisted vehicle steering - has steering lock sensor with automatic proportional control for brake force of curve inner wheel**

Patent Number: DE4224887  
Publication date: 1993-09-30  
Inventor(s): HERING HUBERT (DE); BAEURER ULRICH (DE)  
Applicant(s): DEERE & CO (DE)  
Requested Patent:  DE4224887  
Application Number: DE19924224887 19920728  
Priority Number(s): DE19924224887 19920728  
IPC Classification: B62D11/08; B60T11/21; B60T8/32; B62D15/02  
EC Classification: B60T8/24, B60T11/21, B62D11/08  
Equivalents:

---

**Abstract**

---

The utility vehicle has selective brake steering either via separate brake pedals (46, 48) or via an automatic system. The system has a controller (24) which monitors the steering lock and which provides a proportional control for either rear wheel brake, depending on the direction of steering.

The automatic system is switched on by a selector switch (66) to allow normal travel on roads. The max. brake force is limited to prevent wheel lock. During automatic brake steering, the locking effect of the rear differential is inhibited.

USE/ADVANTAGE - Partic. for industrial and agricultural vehicles. No driver skill required, automatic control, min. risk of ground damage.

---

Data supplied from the esp@cenet database - I2